## **CLAIMS**

What is claimed is:

1. A method of estimating an outcome for a software development

5 project, comprising:

selecting a parametric rule having a plurality of variables;

choosing a project type, a lifecycle, and a standard for the software development project;

assigning a type factor responsive to choosing the project type;
assigning a lifecycle factor responsive to choosing the lifecycle;
assigning a standard factor responsive to choosing the standard;
using the type factor, the lifecycle factor, and the standard factor as
variables in the parametric rule; and
generating the outcome.

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- 2. The method according to claim 1 wherein the outcome is a software effort estimate for the software development project.
- 3. The method according to claim 1 wherein the outcome is a softwaredefect report for the software development project.
  - 4. The method according to claim 1 wherein the outcome is a software development schedule for the software development project.

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- 5. The method according to claim 1 wherein the outcome is a estimated cost for the software development project.
- 5 6. The method according to claim 1 wherein assigning the lifecycle factor includes extracting the lifecycle factor from a look-up table.
  - 7. The method according to claim 1 wherein assigning the standard factor includes extracting the standard factor from a look-up table.
  - 8. The method according to claim 1 wherein using the lifecycle factor includes using the lifecycle factor as a linear variable in the parametric rule.
- 9. The method according to claim 1 wherein using the standard factor includes using the standard factor as a linear variable in the parametric rule.
  - 10. The method according to claim 1 wherein using the lifecycle factor includes using the an inverse of the lifecycle factor as a linear variable in the parametric rule.

- 11. The method according to claim 1 wherein using the standard factor includes using an inverse of the standard factor as a linear variable in the parametric rule.
- The method according to claim 1 wherein the parametric rule further uses a size factor indicative of the number of lines of code to be written in the software development project.
- 13. The method according to claim 12 wherein the size factor isgenerated by using an internet point metric.
  - 14. The method according to claim 12 wherein the size factor is generated by using Domino point metric.
- 15. The method according to claim 1 wherein the parametric rule further uses an environmental factor indicative of environmental conditions specific to the software development project.
- The method according to claim 1 further including using a genericlifecycle template to generate a work product breakdown.

- 17. The method according to claim 16, wherein the chosen lifecycle is mapped to the generic lifecycle template.
- 18. The method according to claim 1 further including using a genericstandard template to generate a document requirement report.
  - 19. The method according to claim 16, wherein the chosen standard is mapped to the generic standard template.
- 10 20. The method according to claim 1 wherein the parametric rule uses the type factor, the lifecycle factor, the standard factor, an environment factor, and a size element.
- 21. The method according to claim 20 wherein the parametric rule is

  15 used to determine an effort, and has the general form of "EFFORT = TYPE

  FACTOR \* LIFECYCLE FACTOR \* STANDARD FACTOR \* ENVIRONMENT

  FACTOR \* SIZE ELEMENT."
- 22. The method according to claim 21 wherein the parametric rule is in the form of "EFFORT =  $\sum Env(l) * M(a) * Life * Std * KSLOC ^{M(b) + \sum Env(s)}$ ".

- 23. The method according to claim 21 further including using a defect parametric rule and a defect factor associated with the project type, the defect parametric rule having the form of "DEFECT = DEFECT FACTOR \* EFFORT \* (1/LIFECYCLE FACTOR) \* (1/STANDARD FACTOR)".
- 24. The method according to claim 21 further including using a schedule parametric rule and a schedule factor associated with the project type, the schedule parametric rule having the form of "Schedule = T(a) \* Effort T(b) + T(b)

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 $(\sum env(s) / 5)$  "